CLAIMS

We claim:

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A computer assisted method for analyzing information from a data source, comprising:

selecting one or more data sources;

linking said selected source to an operator for analyzing information;

detecting whether said data source is a data stream or a database; and

evaluating said operator against a database when said data source includes

one or more databases and evaluating a data unit against said operator when said

data source includes one or more data streams.

2. A method, as in claim 1, further comprising:
linking a plurality of operators together in a network wherein said network
analyzes information from said data source.

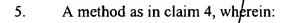
 λ 3. A method as in claim 2, further comprising:

composite operator when said data source includes one or more data streams; and compiling said network by assigning a document identifier to one or more operators, combining said operators having a document identifier into an operator database and inverting that operator database when said data source includes one or more databases.

4. A method as in claim 3, wherein:

each operator receives a listing of data context identifiers having one or
more corresponding document features.

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said document features are chosen from a group consisting of terms, extracted entities, term relations, term counts, term distribution, discourse markers, feature distribution, reference data deriving from said data source.

- 6. A method as in claim 1/2 wherein said data source contains at least one of the group consisting of a text file, audio file, video file, graphic file, and picture file.
- 7. A method as in claim 6, wherein:

 data from said data source is transmitted over a network to a computer which evaluates said data.
- 8. A method as in claim 7, wherein said network comprises the Internet.

A computer assisted method for analyzing information from a data source, comprising:

selecting one or more data sources;

selecting one or more operators for analyzing information;

linking a plurality of operators together in a network;

creating a visual representation of said network;

linking said network to said data source in said visual representation; and compiling said network and evaluating said data source using said network when said network is visually linked to said data source.

10. A method as in claim 9, further comprising:

compiling said network by combining one or more operators into a single composite operator when said data source includes one or more data streams; and

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compiling said network by assigning a document identifier to one or more operators, combining said operators having a document identifier into an operator database and inverting that operator database when said data source includes one or more databases.

- 11. A method as in claim 10, wherein:
 each operator receives a listing of data context identifiers having one or
 more corresponding document features.
- said document features are chosen from a group consisting of terms, extracted entities, term relations, term counts, term distribution, discourse markers, feature distribution, reference data deriving from said data source.

A method as in claim 11, wherein:

- 13. A method as in claim 12, wherein said data source contains at least one of the group consisting of a text file, audio file, video file, graphic file, and picture file.
- 14. A method as in claim 13, wherein:

 data from said data source is transmitted over a network to a computer
 which evaluates said data.
- 15. A method as in claim 14, wherein said network comprises the Internet.

16. A method as in claim 9, further comprising:

creating an output indicator at each mode of said network; said output indicator visually represents a quantified input and a quantified output of said operator.

17. A method as ip claim 16, wherein:

said output indicator displays the number of input documents and the number of output documents for each node of said network.

- 18. A method as in claim 17 wherein said display comprises a pie chart.
- 19. A method as in claim 17 wherein said display comprises a bar chart.
- 20. A method as in claim 17 wherein said display comprises a term map.

21. A method as in claim 9, further comprising:

creating an output indicator, said output indicator representing a response

function initiated by one of said operators

22. A method for automatically responding to information received from a data stream, comprising:

selecting a plurality of operators for detecting whether information satisfies a desired constraint;

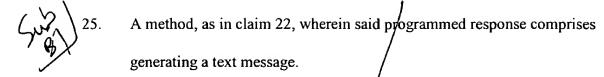
linking said operators together in a network;

creating a visual representation of said network;

linking said data stream to said network in said visual representation;
evaluating said received information against said network; and
automatically generating a programmed response when a constraint from
at least one network operator is satisfied.

- 23. A method, as in claim 22, wherein said programmed response comprises generating an email message.
- 24. A method, as in claim 22, wherein said programmed response comprises generating a telephone voice message.

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- 26. A method, as in claim 22, further comprising:

 creating an output indicator, said indicator representing a response function initiated by one of said operators.
- 27. A method, as in claim 26, wherein said output indicator represents an email message.
- 28. A method, as in claim 26, wherein said output indicator represents a telephone voice message.
- 29. A method, as in claim 26, wherein said output indicator represents a text message.
- 30. A method, as in claim 26, further comprising: transmitting said output indicator over a computer network.
- 31. A method, as in claim 27, further comprising: transmitting said output indicator over a computer network.
- 32. A method, as in claim 28, further comprising: transmitting said output indicator over a computer network.
- 33. A method, as in/claim 29, further comprising: transmitting said output indicator over a computer network.

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